

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

Review and updation of Mining Plan REPORT

Hyderabad regional office

Mine file No : AP/KNL/FE-75/HYD

Mine code : 30APR11043

- (i) Name of the Inspecting : **RK13**) **A.V.Ramesh Kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri Manikanta geologist & Sri Rambabu Manager(Mines)
Official with
Designation
- (iv) Date of Inspection : 03/07/2021
- (v) Prev.inspection date : 03/05/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ARYA LAKSHMI STEEL PVT LT**
- (b) **Registration NO.** : **IBM/18104/2014**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : KURNOOL
- Village : TAVISIKONDA
- Taluka : BETHAMCHERLA
- Post office : GUTUPALLI
- Pin Code : 518599
- FAX No. :
- E-mail : benitamines@gmail.com
- Phone : 8309458250
- (f) Police Station : BETHAMCHERLA
- (g) First opening date : 23/11/2011
- (h) Weekly day of rest : SUN
2. Address for : 8-2-685/pl third floor,Road no.12
correspondance : Opp: Police tower,Banjara Hills
Hyderabad-500034
3. (a) Lease Number : APR3270
- (b) Lease area : 32.91
- (c) Period of lease : 20
- (d) Date of Expiry : 08/12/2031
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : M/s Shree Arya Lakshmi Steel Pvt. Ltd.
 D-201, Aditya Elite, BS
 Maktha, Somajiguda,
 Hyderabad HYDERABAD
 TELANGANA
 Phone:
 FAX :

Owner : U.BHARGAV
 D-201, Aditya Elite, BS
 Maktha, Somajiguda,
 Hyderabad, Telangana ST
 HYDERABAD TELANGANA
 Phone:
 FAX :

Mining Engineer

Name : M VINAY KUMAR, Full Time
 Qualification : BE MINING
 Appointment/ :
 Termination date

Geologist

Name : Manikanta, Full Time
 Qualification : MSc
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	20/05/2009
Plan/Scheme of Mining	:	MP review under 17(1) MCR 2016	17/06/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	It was proposed to carry out 8 core boreholes and 20 DTH during the year 2020-21	The lessee has submitted that due to Covid-19 pandemic, could not take up the proposed exploration and proposed the same to be carried out during the year 2021-22 positively in the draft review of Mining Plan	None
1b	Exploration over lease area for geological axis 1 or 2	---	The area covered under G1 scale:7.433 ha Area covered under G2 scale: 5.224 ha Area under G3 scale: 1.261 ha Area under G4 scale: 18.997 ha	None
1c	Exploration Agencies and Expenditure in lakh rupees during the year	---	No exploration carried out during 2020-21	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	--	The area to be upgraded to G1 scale is 25.482 ha	None
1e	Balance reserve as on 01/04/20	--	The reserve/resource as on 1.4.2021 is as follows: (122) 1129845 tonnes (222) 227445 tonnes (333)703725 tonnes	None
1f	General remarks of inspecting officers on geology, exploration etc	---	---	None

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	It was proposed to excavate from pit no.1 on the North East part of the lease.	The same was observed during the inspection	None
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to develop one bench in OB and two benches in Mineral/ore	The same was noticed during the inspection	None
2c	Stripping ratio or ore to OB ratio	1:2.94	1:2.94	None
2d	Quantity of topsoil generation in m3	None	None	None
2e	Quantity of overburden generation in m3	254425 cu.meters	2053 cu.meters	The reason for less generation of waste is due to less production of iron ore.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	--	None	None

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	None
3b	Quantity of ROM mineral production proposed	354975 tonnes during the year 2020-21	Actual production reported was 1270 tonnes.	None
3c	Recovery of sailable/usable mineral from ROM production	---	None	None
3d	Quantity of mineral reject generation	Nil	Nil	None

3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	None
3f	Quantity of sub grade mineral generation.	Nil	Nil	None
3g	Grade of sub grade mineral generation	Nil	None	None
3h	Manual / Mechanised method adopted for segregating from ROM	Nil	Nil	None
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	None
3j	Provision of drilling and blasting in mineral benches	Provision has been made for drilling and blasting in mineral benches	The powder factor is 9 kg/tonne Explosives of type Slurry cartridge of 25 mm are used along with ammonium nitrate fuel mixture oil.	None
3k	Provision of mining machineries in mineral benches	Provision has been made for mining machinery in mineral benches	Hydraulic excavators are used for excavating the iron ore along with tippers for transporting the same.	None
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	it is proposed to work with a bench height of 4-6 meters	the same was noticed during the inspection	None
3m	Total area covered under excavation/pits	--	2.856 ha	None
3n	Ore to OB ratio for the pit/mine during the year.	1:2.94	1:2.94	None
3o	Total area put in use under different heads at the end of year	--	Area under mine workings: 2.856 ha Area under dumps: 2.370 ha Area under infrastructure: 2.721 ha	None

3p	Production of ROM mineral during the last five year period as applicable	it was proposed to produce during 2019-20:354125 tonnes 2020-21:354125 tonnes The previous years proposals are lapsed years	2019-20:17150 tonnes 2020-21:1270 tonnes	None
3q	General remarks of inspecting officers on method of mining etc.	---	None	All the boundary pillars as per norms/guidelines are erected all along the lease.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	It was proposed to dump OB seperately	The same was noticed during the inspection	None
4b	Location of topsoil, OB and mineral reject dumps	---	None	None
4c	Number of dumps within lease area and outside of lease area	It was proposed to have two dumps on Eastern side of lease.	two dumps on Eastern sidewere noticed during the inspection	None
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Two dumps are located on Eastern side of the leased	The same was observed during the inspection	None
4e	Number of active and alive dumps.	two active dumps	two active dumps	None
4f	Number of dead dumps.	--	Nil	None
4g	Number of dumps established.	two	Two	None
4h	Whether Retaining wall or garland drain all along dumps are there.	yes	yes	None

4i	Length of Retaining wall or garland drain all along dumps	it was proposed to have a retaining wall with 14 meters and 8 meters length for two dumps	The same was noticed during the inspection	None
4j	Number of settling ponds	---	None	None
4k	Specific comments of inspecting officer on waste dump management	--	None	None

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	---	None	None
5b	Area under backfilling of mined out area	--	None	None
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	---	None	None
5d	Total area fully reclaimed and rehabilitated	---	None	None
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	None	None

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	---	yes	None
6b	Area available for rehabilitation (ha) .	--	None	None
6c	afforestation done (ha).	---	2.1 ha	None
6d	No. of saplings planted during the year	70	70	none
6e	Cumulative no .of plants	--	880 no.s	none
6f	Any other method of rehabilitation	---	None	None
6g	Cost incurred on watch and care during the year	--	1,80,000/- as reported by lessee.	None
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	---	None	None
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	None	None
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	None	None	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	None	None

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	None	None
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	None	None	None
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None	None	None
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	None	None
6p	Compliance of environmental monitoring (core zone and buffer zone)	---	The environmental parameters monitoring has been carried out both in the core and buffer zone. All the parameters are within the permissible limits	None
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	None	None	None

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	None	None	None
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	None	None	None

7d	Any beneficiation process at mines	None	None	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	None	None	None

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	None	None	None
8b	Concurrent use or storage of topsoil	None	None	None
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	two Waste dumps are proposed	Two waste dumps noticed duirng the inspection	None
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	None
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None	None	None
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	--	There is lot of dense vegetation in the lease other than the plantation made by lessee.	None
8g	Survival rate	--	80%	None

8h	Water sprinkling on roads to control airborne dust	it was proposed to use water sprinkling for dust suppression	the same was noticed during the inspection.	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	None	None	None

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	---	The monthly and Annual returns are submitted regularly	None
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The Mining Engineer as per the reporting done in Annual return is Sri m Vinay Kumar & Sri manikanta as Geologist	The same was verified during the inspection	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	---	The area covered under various heads is as given below: Mine workings:2.856 ha Dumps: 2.370 ha Infrastructure:2.721 ha	None
9d	Scrutiny of Annual return on afforestation	The plantation carried out duiring the year 2020-21 was 70 no.s	the same was noticed duiring the inspection	None
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	--	None	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The ROM produced duiring the year 2020-21 was 1270 tonnes	The same was verified duiring the inspection.	None

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	In the Annual return it was reported that the cost of production as Rs.354/- per tonne	the same was checked duirng the inspection.	None
9h	Scrutiny of Annual return on fixed assets	it was reported that total value of fixed assets was Zero	the same was not checked	None
9k	Scrutiny of Annual return on mining machineries	In the Annual return the following machiery was reported 1. One Hydraulic excavator with a capacity of 210 cu.meters 2.Tipper of 8 tonne capacity 3. One water tanker	thec same was noticed duirng the inspection.	None

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(A.V.Ramesh Kumar)

Indian Bureau of Mines